

Taski R1-Conc

Revision: 2024-07-31

Version: 01.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Taski R1-Conc

1.2 Recommended use and restrictions on use

See product label.

For professional and industrial use only.

1.3 Details of the supplier of the safety data sheet

Diversey Hygiene Representative Office - Vietnam

Contact details

Viettel Building, Tower A2, 12th Floor, 285 Cach Mang Thang Tam Street, Ward 12, District 10, HCMC, Vietnam

1.4 Emergency telephone number

In case of medical emergency, please seek professional medical advice.

SECTION 2: Composition/information on ingredients

2.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Classification	Weight percent
Citric acid	77-92-9	201-069-1	Eye irritation, Category 2A (H319)	30-50
quatarnary ammonium compounds, trimethyltallow alkyl, chlorides	8030-78-2	232-447-4	Acute toxicity - Dermal, Category 3 (H311) Skin corrosion, Category 1B (H314) Acute toxicity - Oral, Category 4 (H302) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410) Serious eye damage, Category 1 (H318)	3-10
Propan-2-ol	67-63-0	200-661-7	Flammable liquids, Category 2 (H225) Specific target organ toxicity - Single exposure, Category 3 (H336) Eye irritation, Category 2A (H319)	3-10
sodium xylene sulphonate	1300-72-7	701-037-1	Eye irritation, Category 2A (H319)	1-3
2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4	Flammable liquids, Category 4 (H227) Acute toxicity - Oral, Category 5 (H303) Skin irritation, Category 2 (H315) Eye irritation, Category 2A (H319)	0.1-1

Workplace exposure limit(s), if available, are listed in subsection 8.1.

ATE, if available, are listed in section 11.

SECTION 3: Hazards identification

3.1 Classification of the substance or mixture

Flammable liquids, Category 4

Skin corrosion, Category 1B

Acute aquatic toxicity, Category 1

Chronic aquatic toxicity, Category 2

Corrosive to metals, Category 1

Serious eye damage, Category 1

3.2 Label elements



Signal word: Danger.

Hazard statements:

H227 - Combustible liquid.

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H314 - Causes severe skin burns and eye damage.
 H410 - Very toxic to aquatic life with long lasting effects.
 H290 - May be corrosive to metals.

Precautionary statements:

P280 - Wear protective gloves, protective clothing and eye or face protection.
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 - Immediately call a POISON CENTRE, doctor or physician.

3.3 Other hazards

No other hazards known. Exposure and appropriate engineering controls are specified in subsection 8.2 exposure controls.

3.4 Classification diluted product

Recommended maximum concentration (% w/w): 25

Skin irritation, Category 2
 Eye irritation, Category 2A
 Acute aquatic toxicity, Category 2
 Chronic aquatic toxicity, Category 3

3.5 Label elements diluted product

Signal word: Warning.

Hazard statements:

H315 + H319 - Causes skin and serious eye irritation.
 H401 - Toxic to aquatic life.
 H412 - Harmful to aquatic life with long lasting effects.

SECTION 4: First aid measures

4.1 Description of first aid measures**General Information:**

If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

Inhalation:

Get medical attention or advice if you feel unwell.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician.

Eye contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed**Inhalation:**

No known effects or symptoms in normal use.

Skin contact:

Causes severe burns.

Eye contact:

Causes severe or permanent damage.

Ingestion:

Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Turn off all sources of ignition. Ventilate the area. Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders).

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

Keep away from flames and hot surfaces. No smoking. Take precautionary measures against static discharges.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls:

If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

Appropriate organisational controls:

Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection:

Safety glasses or goggles (EN 16321 / EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

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Hand protection:	Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature. Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
Body protection:	Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).
Respiratory protection:	No special requirements under normal use conditions.
Environmental exposure controls:	No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 25

Appropriate engineering controls:	No special requirements under normal use conditions.
Appropriate organisational controls:	Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection:	No special requirements under normal use conditions.
Hand protection:	Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature. Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
Body protection:	No special requirements under normal use conditions
Respiratory protection:	No special requirements under normal use conditions.
Environmental exposure controls:	No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

	Method / remark
Physical state: Liquid	
Colour: Clear , Dark , Blue	
Odour: Slightly perfumed	
Odour threshold: Not applicable	
pH:	
Dilution pH: ≈ 3 (1%)	ISO 4316
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	
Flammability (liquid): Combustible.	
Flash point (°C): Not applicable.	
Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)	
Evaporation rate: Not determined	Not relevant to classification of this product
Flammability (solid, gas): Not applicable to liquids	
Lower and upper explosion limit/flammability limit (%): Not determined	
Vapour pressure: Not determined	
Relative density: ≈ 1.14 (20 °C)	OECD 109 (EU A.3)
Relative vapour density: Not determined.	Not relevant to classification of this product
Particle characteristics: No data available.	Not applicable to liquids.
Solubility in / Miscibility with water: Fully miscible	
Partition coefficient: n-octanol/water No information available.	

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.

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Kinematic viscosity: Not determined

Explosive properties: Not explosive. Vapours may form explosive mixtures with air.

Oxidising properties: Not oxidising.

9.2 Other information

Surface tension (N/m): Not determined

Corrosion to metals: Corrosive

Weight of evidence

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >5000

ATE - Dermal (mg/kg): >5000

Substance data, where relevant and available, are listed below:.

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
Citric acid	LD ₅₀	5400-11700	Rat	Method not given	
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	LD ₅₀	300-2000	Rat	Method not given	
Propan-2-ol	LD ₅₀	5840	Rat	OECD 401 (EU B.1)	
sodium xylene sulphonate	LD ₅₀	> 7200	Rat	OECD 401 (EU B.1)	
2,6-dimethyloct-7-en-2-ol		3600			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
Citric acid	LD ₅₀	> 2000	Rat	Method not given	
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	LD ₅₀	200-1000			
Propan-2-ol	LD ₅₀	> 2000	Rabbit	Method not given	
sodium xylene sulphonate	LD ₅₀	> 2000	Rabbit	OECD 402 (EU B.3)	
2,6-dimethyloct-7-en-2-ol		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Citric acid		No data available			
quaternary ammonium compounds, trimethyltallow alkyl, chlorides		No data available			

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Propan-2-ol	LC ₅₀	> 25 (vapour)	Rat	OECD 403 (EU B.2)	6
sodium xylene sulphonate	LC ₀	> 6.41 (mist) No mortality observed	Rat	OECD 403 (EU B.2)	4
2,6-dimethyloct-7-en-2-ol		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Citric acid	Not irritant	Rabbit	OECD 404 (EU B.4)	
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	Corrosive			
Propan-2-ol	Not irritant	Rabbit	OECD 404 (EU B.4)	
sodium xylene sulphonate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
2,6-dimethyloct-7-en-2-ol	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Citric acid	Severe damage Irritant	Rabbit	OECD 405 (EU B.5)	
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	No data available			
Propan-2-ol	Irritant	Rabbit	OECD 405 (EU B.5)	
sodium xylene sulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
2,6-dimethyloct-7-en-2-ol	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Citric acid	No data available			
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	No data available			
Propan-2-ol	No data available			
sodium xylene sulphonate	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
Citric acid	Not sensitising	Guinea pig	Method not given	
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	No data available			
Propan-2-ol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
sodium xylene sulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
2,6-dimethyloct-7-en-2-ol	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
Citric acid	No data available			
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	No data available			
Propan-2-ol	No data available			
sodium xylene sulphonate	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
Citric acid	No data available		No evidence of genotoxicity, negative test results	Method not given
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	No data available		No data available	
Propan-2-ol	No evidence for mutagenicity, negative test results No evidence of genotoxicity, negative test results	OECD 471 (EU B.12/13)	No evidence of genotoxicity, negative test results	OECD 474 (EU B.12)
sodium xylene sulphonate	No evidence for mutagenicity, negative test results	OECD 473	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
2,6-dimethyloct-7-en-2-ol	No data available		No data available	

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Carcinogenicity

Ingredient(s)	Effect
Citric acid	No evidence for carcinogenicity, negative test results
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	No data available
Propan-2-ol	No evidence for carcinogenicity, negative test results
sodium xylene sulphonate	No evidence for carcinogenicity, negative test results
2,6-dimethyloct-7-en-2-ol	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
Citric acid			No data available				No evidence for reproductive toxicity
quaternary ammonium compounds, trimethyltallow alkyl, chlorides			No data available				
Propan-2-ol			No data available				
sodium xylene sulphonate	NOAEL	Teratogenic effects	> 936	Rat	Non guideline test		
2,6-dimethyloct-7-en-2-ol			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
Citric acid		No data available				
quaternary ammonium compounds, trimethyltallow alkyl, chlorides		No data available				
Propan-2-ol		No data available				
sodium xylene sulphonate	NOAEL	763 - 3534	Rat	OECD 408 (EU B.26)	90	
2,6-dimethyloct-7-en-2-ol		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
Citric acid		No data available				
quaternary ammonium compounds, trimethyltallow alkyl, chlorides		No data available				
Propan-2-ol		No data available				
sodium xylene sulphonate	NOAEL	> 440		OECD 411 (EU B.28)	90	
2,6-dimethyloct-7-en-2-ol		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
Citric acid		No data available				
quaternary ammonium compounds, trimethyltallow alkyl, chlorides		No data available				
Propan-2-ol		No data available				
sodium xylene sulphonate		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
Citric acid			No data available					
quaternary ammonium compounds, trimethyltallow alkyl, chlorides			No data available					
Propan-2-ol			No data					

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			available					
sodium xylene sulphonate	Oral		No data available	Rat	OECD 453 (EU B.33)	24 month(s)	No adverse effects observed	
2,6-dimethyloct-7-en-2-ol			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
Citric acid	No data available
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	No data available
Propan-2-ol	Central nervous system
sodium xylene sulphonate	No data available
2,6-dimethyloct-7-en-2-ol	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
Citric acid	No data available
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	No data available
Propan-2-ol	No data available
sodium xylene sulphonate	No data available
2,6-dimethyloct-7-en-2-ol	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture .

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Citric acid	LC ₅₀	440	<i>Leuciscus idus</i>	Method not given	48
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	LC ₅₀	> 0.1-1	<i>Oncorhynchus mykiss</i>	Method not given	96
Propan-2-ol	LC ₅₀	> 100	<i>Pimephales promelas</i>	Method not given	48
sodium xylene sulphonate	LC ₅₀	> 1000	<i>Oncorhynchus mykiss</i>	Method not given	96
2,6-dimethyloct-7-en-2-ol	LC ₅₀	27.8	<i>Oncorhynchus mykiss</i>	OECD 203, static	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Citric acid	EC ₅₀	1535	<i>Daphnia magna Straus</i>	Method not given	24
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	EC ₅₀	> 0.01-0.1	<i>Daphnia magna Straus</i>	Read across	48
Propan-2-ol	EC ₅₀	> 100	<i>Daphnia magna Straus</i>	Method not given	48
sodium xylene sulphonate	EC ₅₀	> 1000	<i>Daphnia magna Straus</i>	Method not given	48
2,6-dimethyloct-7-en-2-ol	EC ₅₀	38	<i>Daphnia magna Straus</i>	OECD 202, static	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Citric acid	LC ₅₀	425	<i>Scenedesmus quadricauda</i>	Method not given	168
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	EC ₅₀	> 0.01-0.1	<i>Not specified</i>	Read across	72
Propan-2-ol	EC ₅₀	> 100	<i>Scenedesmus quadricauda</i>	Method not given	72
sodium xylene sulphonate	EC ₅₀	> 230	<i>Not specified</i>	EPA OPPTS 850.5400	96
2,6-dimethyloct-7-en-2-ol	E _b C ₅₀	65	<i>Desmodesmus</i>	OECD 201, static	72

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			<i>subspicatus</i>	
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Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
Citric acid		No data available			
quaternary ammonium compounds, trimethyltallow alkyl, chlorides		No data available			
Propan-2-ol		No data available			
sodium xylene sulphonate		No data available			
2,6-dimethyloct-7-en-2-ol		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
Citric acid	EC ₅₀	> 10000	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
quaternary ammonium compounds, trimethyltallow alkyl, chlorides		No data available			
Propan-2-ol	EC ₅₀	> 1000	<i>Activated sludge</i>	Method not given	
sodium xylene sulphonate	E _r C ₅₀	> 1000	<i>Activated sludge</i>	OECD 209	3 hour(s)
2,6-dimethyloct-7-en-2-ol		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Citric acid		No data available				
quaternary ammonium compounds, trimethyltallow alkyl, chlorides		No data available				
Propan-2-ol		No data available				
sodium xylene sulphonate		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Citric acid		No data available				
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	NOEC	> 0.001 - 0.01	<i>Daphnia magna</i>	OECD 211	21 day(s)	
Propan-2-ol		No data available				
sodium xylene sulphonate		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
Propan-2-ol		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Citric acid		No data available				
Propan-2-ol		No data available				

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Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Citric acid		No data available				
Propan-2-ol		No data available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
Citric acid		No data available				
Propan-2-ol		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Citric acid		No data available				
Propan-2-ol		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Citric acid		No data available				
Propan-2-ol		No data available				

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
Citric acid	No data available			
Propan-2-ol	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
Citric acid	No data available			
Propan-2-ol	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
Citric acid		No data available			
Propan-2-ol		No data available			

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
Citric acid			97 % in 28 day(s)	Method not given OECD 301B	Readily biodegradable
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	Activated sludge, aerobe	Oxygen depletion		OECD 301D	Readily biodegradable
Propan-2-ol			95 % in 21 day(s)	OECD 301E	Readily biodegradable
sodium xylene sulphonate	Activated sludge, aerobe	CO ₂ production	99.8 % in 28 day(s)	OECD 301B	Readily biodegradable
2,6-dimethyloct-7-en-2-ol				OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT ₅₀	Method	Evaluation
Citric acid					No data available
Propan-2-ol					No data available

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Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT ₅₀	Method	Evaluation
Citric acid					No data available
Propan-2-ol					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
Citric acid	-1.72		No bioaccumulation expected	
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	No data available			
Propan-2-ol	0.05	OECD 107	No bioaccumulation expected	
sodium xylene sulphonate	-3.12	Method not given	No bioaccumulation expected	
2,6-dimethyloct-7-en-2-ol	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
Citric acid	No data available				
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	No data available				
Propan-2-ol	No data available				
sodium xylene sulphonate	No data available				
2,6-dimethyloct-7-en-2-ol	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
Citric acid	No data available				Potential for mobility in soil, soluble in water
quaternary ammonium compounds, trimethyltallow alkyl, chlorides	No data available				
Propan-2-ol	No data available				Potential for mobility in soil, soluble in water
sodium xylene sulphonate	No data available				
2,6-dimethyloct-7-en-2-ol	No data available				

12.5 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging**Recommendation:****Suitable cleaning agents:**

Dispose of observing national or local regulations.

Water, if necessary with cleaning agent.

SECTION 14: Transport information**Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)****14.1 UN number:** 3265**14.2 UN proper shipping name:**

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Corrosive liquid, acidic, organic, n.o.s. (citric acid , tallowtrimethylammoniumchloride)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: III**14.5 Environmental hazards:**

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6 Special precautions for user: None known.**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.**Other relevant information:****IMO/MDG**

EmS: F-A, S-B

Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

- Decree 108/2008/NP-CP Circular No.: 04/2012/TT-BCT Regulations on the Classification and Labeling of Chemicals

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

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Abbreviations and acronyms:

- DNEL - Derived No Effect Limit
- PNEC - Predicted No Effect Concentration
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- OECD - Organisation for Economic Cooperation and Development
- H225 - Highly flammable liquid and vapour.
- H302 - Harmful if swallowed.
- H311 - Toxic in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H319 - Causes serious eye irritation.
- H336 - May cause drowsiness or dizziness.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H318 - Causes serious eye damage.

End of Safety Data Sheet